



Material Test Report

Heat Code: HHV

ISO 9001:2000 Certified

An Ameri-Forge Group Company
 13770 Industrial Rd. Houston, TX 77015
 Sales: (713) 868-4421 Fax: (713) 455-8368

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0 54940 TULTITLAN, EDO, MEX	PO: 7995	Sales Order: 74164	Line: 7
	Item Code: 0302600100-0020F		Qty Shipped: 20
	Item Desc: FLG 06.00 0300 SO RF		
	Supplier: CMC	Supplier Heat: 3014022	

Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.20				Cr	Chromium	0.11		✓	7440-47-3
Mn	Manganese	1.04		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.008				V	Vanadium	0.002			
S	Sulphur	0.021				Cb	Columbium	0.002			
Si	Silicon	0.24				C.E.		0.42			
Cu	Copper	0.19		✓	7440-50-8	CuNiCrMo		0.39			
Ni	Nickel	0.07		✓	7440-02-0	CrMo		0.13			

Mechanical Testing		
Test Lab	AFG	
Test Bar Size	Test Piece	
HBW	174 - 174	
Elg (%)	30	
RA (%)	61	
Tensile Specimen Size (in)	.250	
Tensile (ksi)	83.9	
Yield (ksi)	51.1	
Gauge Length	1	

Other		
MILL		CMC-TEXAS
MHC		3014022
Country of Origin		USA
EF		Y
Fully Killed		Y

PLESA ANAHUAC Y CIAS, S.A. DE C.V.
 CONTROL DE CALIDAD
 FECHA 18 May 2010
 EGG
 FIRMA E. RUIZ

Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5
 Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition.
 No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method.
 No weld repair performed on this product.
 Product compliant with NACE MR0103, latest edition.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.: 182179
 Certification Date: 4/30/2010

Nicholas Tepovich

 Nicholas Tepovich - Metallurgic Lab Manager